

## UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS WELL LOG ELECTRIC LOGS FILE ☒ WATER SANDS LOCATION INSPECTED ☒ OIL SUB REPORT/abd

\* Location abandoned - well never drilled - 9-21-82

DATE FILED 3-30-81

LAND: FEE &amp; PATENTED

STATE LEASE NO.

PUBLIC LEASE NO

U22775

INDIAN

DRILLING APPROVED 9-2-81

SPUDDED IN

COMPLETED

PUT TO PRODUCING

INITIAL PRODUCTION

GRAVITY A.P.I.

GOR

PRODUCING ZONES

TOTAL DEPTH

WELL ELEVATION 9088' 6R

DATE ABANDONED LA 9-21-82

FIELD Wildcat 3/86

UNIT

COUNTY Duchesne

WELL NO Horse Ridge #1-3

API NO. 43-013-30598

LOCATION 2536 FT FROM ☒ (S) LINE.

2215

FT FROM ☒ (W) LINE.

NE SW

1/4 - 1/4 SEC 3

TWP

RGE

SEC

OPERATOR

TWP

RGE

SEC

OPERATOR

7S

9W

3

MARATHON OIL CO.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Copy for

LEASE DESIGNATION AND SERIAL NO.

U 22775

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐OTHER ☐SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Marathon Oil Company

## 3. ADDRESS OF OPERATOR

P.O. Box 2659, Casper, Wyoming 82602

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

2,215' FWL &amp; 2,536' FSL, NE/4 NE/4 SW/4

At proposed prod. zone

## 6. IF INDIAN, ALLOTTEE OR TRIBE NAME

## 7. UNIT AGREEMENT NAME

## 8. FARM OR LEASE NAME

Horse Ridge

## 9. WELL NO.

1-3

## 10. FIELD AND POOL, OR WILDCAT

Wildcat

## 11. SEC., T., R., M., OR BLK.

AND SURVEY OR AREA

Sec 3, T7S, R9W

Uinta Special Meridian

## 12. COUNTY OR PARISH

Duchesne

## 13. STATE

Utah

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

30 Miles Northwest of Price, Utah

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. unit line, if any)

2,215'

## 16. NO. OF ACRES IN LEASE

2423.34

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

None

## 19. PROPOSED DEPTH

2,200'

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

9088' GL

## 22. APPROX. DATE WORK WILL START\*

2nd Quarter, 1981

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
Please see	Item #4 of	10 Point Program for complete		Casing and Cementing Program

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MAR 30 1981

Please see the following attachments:

1. Surveyor's Plat
2. Ten-Point Drilling Program
3. BOP Schematic
4. Thirteen-Point Surface Plan
5. Maps and Diagrams

DIVISION OF  
OIL, GAS & MININGAPPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 9-2-8

BY: M. J. Winder

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Belle Caddy

TITLE District Operations Manager DATE March 25, 1981

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

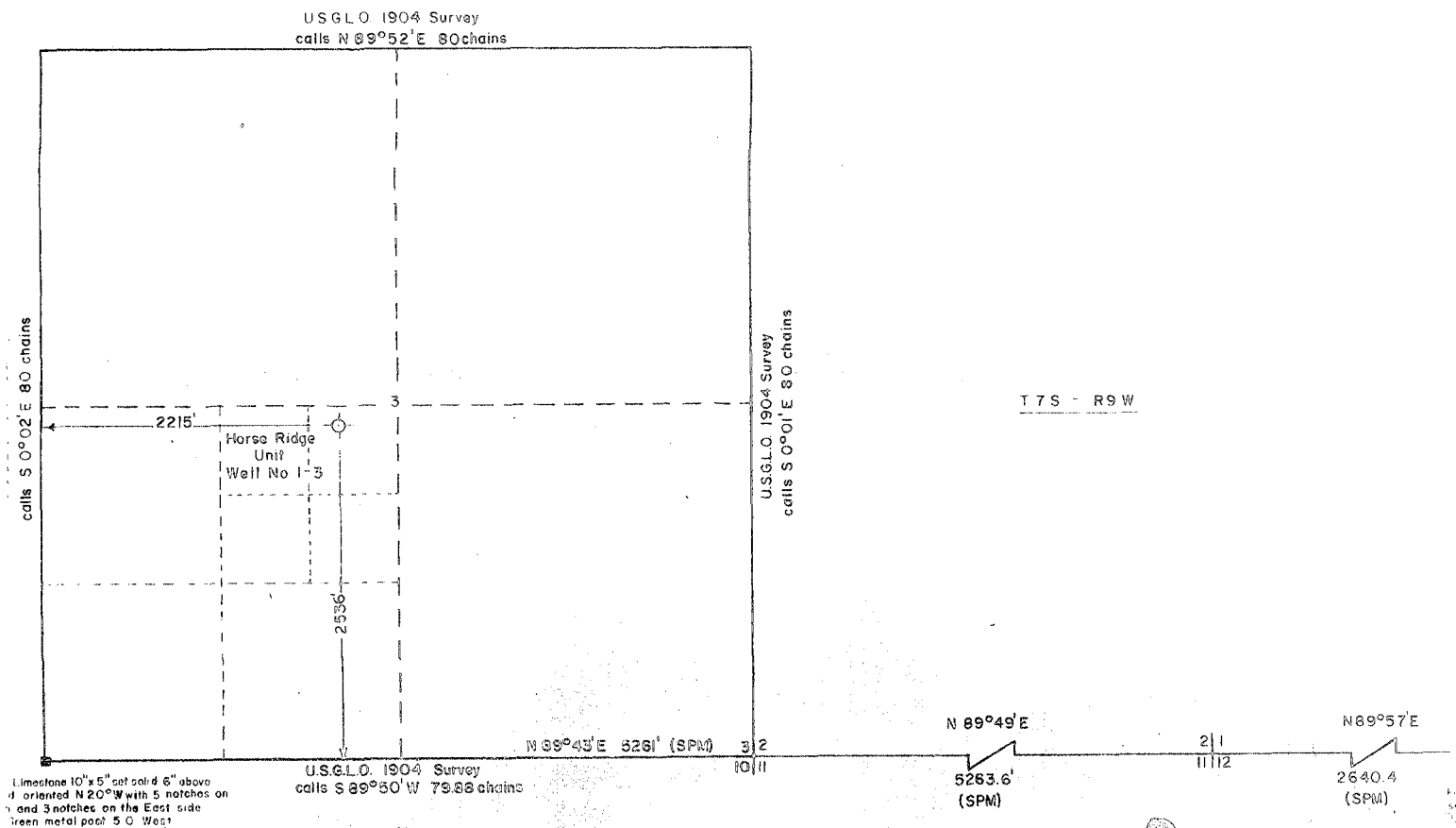
TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



Scale: 1" = 1,000'



Legend

- - Brass cap monument
- - Stone monument
- SPM - Established by single proportionate measurement

Notes

Orientation by Solar Observation

I, William H. Smith of Green River, Wyoming hereby certify that in accordance with a request from Walt West of Casper, Wyoming for Marathon Oil Company made a survey on the 11th day of November 1980 for location and elevation of the Horse Ridge Unit Well No. 1-3. As shown on the above map, the well site is in the NE 1/4 NE 1/4 SW 1/4 of Section 3, Township 7 South, Range 9 West of the Uinta Special Meridian, Duchesne County, State of Utah. Elevation is 9088 feet ungraded ground. Datum USGS Spot elevation 8970 ± 400' westerly from the East quarter corner of Section 1, T 7 S, R 9 W. Said point being marked with 3 1/2" brass cap set in sandstone.

Reference Point	North	301.0'	Set 5/8" x 24" rebar and lath with flagging	Elevation top rebar = 9061.8
Reference Point	East	300.0'	Set 5/8" x 24" rebar and lath with flagging	Elevation top rebar = 9081.3
Reference Point	South	300.0'	Set 5/8" x 24" rebar and lath with flagging	Elevation top rebar = 9098.8
Reference Point	West	300.0'	Set 5/8" x 24" rebar and lath with flagging	Elevation top rebar = 9094.6

*William H. Smith*  
UTAH R.L.S. NO. 2764

MARATHON OIL COMPANY  
DRILLING OPERATIONS PLAN

DATE: March 25, 1981

WELL NAME: Horse Ridge #1-3

LOCATION: 2,215' FWL & 2,536' FSL, NE/4 NE/4 SW/4, Sec. 3, T7S, R9W  
Uinta Special Meridian, Duchesne County, Utah

1. Geologic name of the surface formation:

Green River "B" Formation

2. Estimated tops of important geological markers:

<u>Formation</u>	<u>Depth</u>	<u>Datum</u>
Green River "C"	70'	(+9,030')
Wire Fence	477'	(+8,623')
Green River "D"/ Black Shale Facies	500'	(+8,600')
Green River "E"	850'	(+8,250')
Colton "A"	1,500'	(+7,600')
Colton "B"	1,840'	(+7,260')
T.D.	2,200'	(+6,900')

3. Estimated depths at which oil, water, gas or other mineral bearing formations are expected to be encountered:

<u>Formation</u>	<u>Depth</u>	<u>Datum</u>	<u>Probable Content</u>
Green River "C"	70'	(+9,030')	Water
Wire Fence	477'	(+8,623')	Water, Oil, Gas - Secondary Objective
Green River "D"/ Black Shale Facies	500'	(+8,600')	Water, Oil, Gas
Green River "E"	850'	(+8,250')	Water, Oil, Gas - Secondary Objective
Colton "A"	1,500'	(+7,600')	Water, Oil, Gas - Secondary Objective
Colton "B"	1,840'	(+7,260')	Water, Oil, Gas - Primary Objective

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MAR 27 1981

DIVISION OF  
OIL, GAS & MINING

4. The Proposed Casing Program:

Casing Design

<u>CASING STRING</u>	<u>HOLE SIZE</u>	<u>INTERVAL</u>	<u>SECTION LENGTH</u>	<u>SIZE (OD)</u>	<u>WEIGHT, GRADE AND JOINT</u>	<u>NEW OR USED</u>	<u>MUD WEIGHT</u>	<u>TENSION LOAD</u>	<u>SF<sub>t</sub></u>	<u>SF<sub>c</sub></u>	<u>SF<sub>b</sub></u>
Surface	12-1/4"	0 - 450'	450'	9-5/8"	36.0#, K55, STC	New	8.9	17	25.0	9.18	3.42
Production	7-7/8"	0 - 2,200'	2,200'	5-1/2"	15.5#, K55, STC	New	9.4	34	6.51	3.72	4.67

Cement Program:

9-5/8" Casing

Cement Volume: 450 ft x .3132 cu.ft/ft x 2.0 excess = 290 cu.ft.

Slurry: 450' calculated plus 100% excess = 260 sacks of Class "G" cement containing 1/2#/sack cellophane flakes and 2% CaCl<sub>2</sub>.

Slurry Yield: 1.14 cu.ft./sack

Slurry Density: 15.9 lb/gal.

Water Requirement: 5.00 gal/sack

Casing Equipment: Guide shoe, insert float valve, 3 centralizers. WOC time will be a minimum of 8 hours. If float equipment holds, closed-in pressure after cementing is not recommended.

5-1/2" Casing

Cement Volume: 2,200 ft x .1733 cu.ft/ft. x 1.50 excess = 572 cu.ft.

Slurry: 2,200' calculated plus 50% excess from logs - 340 sacks of thixotropic cement (i.e. Halliburton Thickset w/1% component A, 1/4% component B, 3% salt) containing 1/4#/sack cellophane flakes, and 10 lbs. gilsonite per sack.

Slurry Yield: 1.69 cu.ft./sack

Slurry Density: 12.7 lb/gal

Water Requirement: 7.7 gal/sack

Casing Equipment: Guide shoe, float collar, 10 centralizers. If float holds, closed-in pressure after completion of cement job is not recommended. Set casing on slips as soon as possible following cement job.

Slurry Preflush: 20 bbls 2% KCl.

5. Pressure Control Equipment:

A diverter system shall be installed on the 13-3/8" conductor pipe prior to spudding the well to safely direct the flow of any fluid at the surface away from the rig. This system will consist of a rotating head, rigged up over a drilling spool and casing flange. Minimum O.D. of the relief line shall be at least 4" throughout the system.

Following setting of the 9-5/8" surface string, BOP equipment will include a double-ram type preventer with pipe and blind rams and a rotating head (API arrangement SRdG). All equipment will have a 3,000 psi or greater working pressure. Rams, valves, lines, choke manifold and casing will be tested to 200 psi for 5 minutes and 1,000 psi for 5 minutes prior to drilling out from under 9-5/8" surface casing. After drilling casing shoe and 5 feet of additional hole, a shoe test will be performed to 13.0 ppg equivalent mud weight or leakoff, whichever occurs first. The accumulator should be of sufficient capacity to meet the following requirements:

1. Ability of immediate closure to all members of the stack without recharging.
2. A total of 50% of the original fluid should remain as a reserve after accumulator activation.
3. A minimum pressure of 1,200 psi is required to insure that the preventers remain closed.

Visual checks of the equipment will be made tourly. Function pipe rams daily and blind rams on trips.

6. Drilling Mud Program:

<u>From</u>	<u>To</u>	<u>Type Mud</u>	<u>Weight</u>	<u>% Oil</u>	<u>Water Loss</u>
Surface	450'	Gel/Water	8.5-8.9	N/A	N/A
450'	2,200'	Air	N/A	N/A	N/A

If excessive water production is encountered while air-drilling, it may be necessary to change-over to an aerated water system. However, pits will be maintained at all times with sufficient fluid level to fill the well-bore if a rapid change-over is necessary.

7. Auxiliary Equipment Required:

A drilling rate recorder calibrated to record drilling time for each one foot interval will be used.

The mud system will include a shale shaker, desander/desilter, gas buster/degasser. Both a remote adjustable choke and a manual choke will be used.

A kelly cock will be used and a full opening manual safety valve will be available on the rig floor.

A single shot drift indicator will be used.

Equipment for air-drilling will include compressors & booster, chemical injection pump, fire stop and fire float will be used.

<u>From</u>	<u>To</u>	<u>Maximum Distance Between Surveys</u>	<u>Maximum Deviation From Vertical</u>	<u>Maximum Change Per 100' of Depth</u>
0'	450'	250'	1°	1°
450'	2,200'	250'	5°	1°

No Faulting is anticipated.  
The beds dip 5-6° NE.

8. Testing, Logging, Coring and Fracing Program:

When drilling with mud, samples will be taken at 10' intervals from surface to T.D. When air-drilling, samples will be taken at 30' intervals. A mud logging unit will be on the well from surface to T.D.

The 7-7/8" hole will be air-drilled unless severe water production is encountered. The following logs will be run in the unfilled wellbore from T.D. to surface casing shoe: DIL, GR, FDC, SNP, CAL, with GR to surface.

Two DST's are anticipated, one in the Green River Formation, and one in the Colton Formation, or as shows warrant.

No cores are anticipated.

Fracing Program:

Acid fraced with 500 gallons of 15% acid for each zone.

Proposed if needed, fracing with 30,000 gallons of gelled water and 50,000 #20/40 sand. See diagram "F".

9. Abnormal Conditions:

Normal pressure and temperature gradients are anticipated.

A maximum pressure of 1,250 psi is expected at T.D.

A maximum temperature of 100° F is expected at T.D.

10. Anticipated starting date and duration:

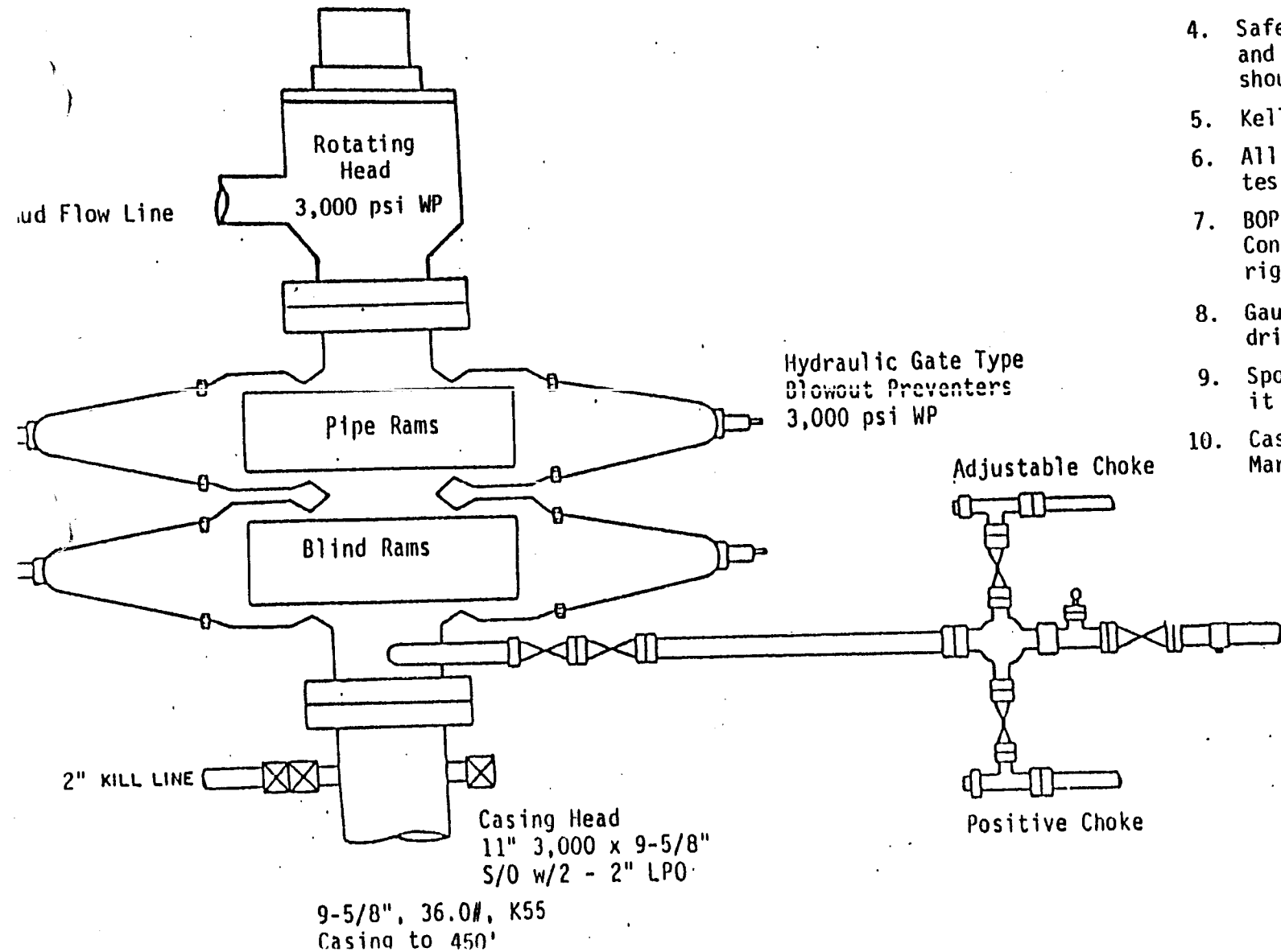
Starting Date: 2nd Quarter, 1981

Duration: 10 days

Name Michael E. Kugh  
Title 3-24-81  
Date District Drilling Supt.



Horse Ridge #1-3  
 2,536' FSL, 2,215' FWL  
 Section 3, T7S, R9W  
 Duchesne County, Utah  
 9,088' GL



1. Blowout preventers, master valve, plug valve and all fittings must be in good condition. Use new API Seal Rings.
2. All fittings (gates, valves, etc.) to be of equivalent pressure rating as preventers. Valves to be flanged and at least 2" unless otherwise specified. Valves next to BOP to be plug type and nominal 3".
3. Equipment through which bit must pass shall be as large as the inside diameter of the casing that is being drilled through.
4. Safety valve must be available on rig floor at all times and with proper connections. The I.D. of safety valves should be as great as I.D. of tool joints on drill pipe.
5. Kelly safety valve installed, same working pressure as BOP's.
6. All lines and controls to preventers must be connected and tested before drilling out of surface pipe.
7. BOP's must be fluid operated, complete with accumulator. Controls may be either on floor or ground near steps from rig floor.
8. Gauge will be installed for testing but removed while drilling.
9. Spool not required, but when side outlet on BOP's is used, it must be below bottom ram.
10. Casinghead and casinghead fittings to be furnished by Marathon Oil Company.

MARATHON OIL COMPANY  
SURFACE USE & OPERATIONS PLAN

DATE: March 25, 1981

WELL NAME: Horse Ridge Well Unit #1-3

LOCATION: 2,215' FWL & 2,536' FSL, NE/4 NE/4 SW/4, Section 3, T7S, R9W  
Uinta Special Meridian, Duchesne County, Utah

#1 Existing Roads:

- A. Proposed well site as staked. (Actual staking should include two each 200-foot directional reference stakes).

See surveyors plat

- B. Route and distance from nearest town and locatable reference point to where well access route leaves main road.

30 miles northwest of Price, Utah in the Ashley National Forest

- C. Access road(s) to location color-coded or labeled.

See map diagram "A" color coded Green.

- D. If exploratory well, all existing roads within a 3-mile radius (including type of surface, conditions, etc.).

See map diagram "A".

- E. If development well, all existing roads within a 1-mile radius of well site.

Not applicable.

- F. Plans for improvement and/or maintenance of existing roads.

All work will be done in accordance with specifications of the U.S. Forest Service, Duchesne, Utah (verbal agreement between U.S. Forest Service & Marathon 3/12/81)

#2 Planned Access Roads:

Map showing all necessary access roads to be constructed or reconstructed, showing:

- |                     |               |
|---------------------|---------------|
| (1) Width           | 18'           |
| (2) Maximum grades  | 0-5%          |
| (3) Turnouts        | None required |
| (4) Drainage design |               |

Ditched and crowned trailer ditches where needed.

- (5) Location and size of culverts and brief description of any major cuts and fills.

None anticipated.

- (6) Surfacing material

See #1, Item F.

- (7) Necessary gates, cattleguards, or fence cuts.

No cattle guards or fence cuts will be required.

- (8) (New or reconstructed roads are to be center-line flagged at time of location staking).

See map diagram "A" color coded Green.

#3 Location of Existing Wells:

Two-mile radius map if exploratory, or 1-mile radius map if development well, showing and identifying existing:

- |  |      |
|--|------|
| (1) Water wells  | None |
| (2) Abandoned wells                                      | None |
| (3) Temporary abandoned wells                            | None |
| (4) Disposal wells                                       | None |
| (5) Drilling wells                                       | None |
| (6) Producing wells                                      | None |
| (7) Shut-in wells  | None |
| (8) Injection wells                                      | None |
| (9) Monitoring or observation wells for other resources. |      |

None

#4 Location of Existing and/or Proposed Facilities:

A. Within 1-mile radius of location show the following existing facilities owned or controlled by lessee/operator:

- |  |      |
|--|------|
| (1) Tank Batteries   | None |
| (2) Production Facilities  | None |
| (3) Gathering Lines  | None |
| (4) Gas Gathering Lines  | None |
| (5) Injection Lines (Indicate if any of the above lines are buried). |      |

None

- |                    |      |
|--------------------|------|
| (6) Disposal Lines | None |
|--------------------|------|

B. If new facilities are contemplated, in the event of production, show:

- (1) Proposed location and attendant lines by flagging if off of well pad.

Adjacent to the access road and as close to the proposed drill site as possible without setting on any fill. See diagram "B".

- (2) Dimensions of Facilities

See diagram "B".

- (3) Construction methods and materials:

Good engineering practices will be used in the construction of these facilities and any needed materials will be obtained through local vendors and contractors.

- B. If new facilities are contemplated, in the event of production, show:  
(cont'd)

(4) Protective measures and devices to protect livestock and wildlife.

Woven wire fences of the pit areas and flagging, if necessary.

- C. Plans for rehabilitation of disturbed areas no longer needed for operations after construction completed.  
Restoration of the drill site and tank battery areas will be reshaped to conform with the topography. The topsoil will be redistributed at the proper time. The sites will be reseeded as per the recommended seed mixture.

#5 Location and Type of Water Supply:

- A. Show location and type of water supply either on map or by written description.  
This is the second of three wells to be drilled in the area. A water well will be drilled on or near the first well location, Horse Ridge #1-35. Water will be hauled from that proposed water well to Horse Ridge #1-3 location.
- B. State method of transporting water, and show any roads or pipelines needed.

See diagram "A" for proposed water haul route. Color coded blue.

- C. If water well is to be drilled on lease, so state. (No APD for water well necessary, however, unless it will penetrate potential hydrocarbon horizons).

A proposed water well is to be drilled on or near one of the three well sites.

#6 Source of Construction Materials:

- A. Show information either on map or by written description.  
Construction materials will be native soil or purchased from a Jobber and hauled to the well site by same.
- B. Identify if from Federal or Indian Land.

None

- C. Describe where materials, such as sand, gravel, stone and soil material, are to be obtained and used.

Any needed materials will be purchased from a Jobber and hauled to the well site.

- D. Show any needed access roads crossing Federal or Indian Lands under Item 2.

None

#7 Methods of handling Waste Disposal:

Describe methods and location of proposed containment and disposal of waste material, including:

- |                                  |             |
|----------------------------------|-------------|
| (1) Cuttings                     | Reserve Pit |
| (2) Drilling fluids              | Reserve Pit |
| (3) Produced fluids (oil, water) | Swab Tanks  |

#7 Methods of Handling Waste Disposal: (cont'd)

(4) Sewage                      Porta Pot

(5) Garbage and other waste material (Trash pits will be completely contained with small mesh wire to prevent wind scattering trash before being disposed of).

There will be a 10 x 10 burn pit on the drill site, and will be fenced.

(6) Statement regarding proper cleanup of well site area when rig moves out.

At the completion of drilling, the site and surrounding area will be cleaned up and all burnable material will be put in the burn pit and burned. All foreign material will be disposed of.

#8 Ancillary Facilities:

Identify all proposed camps and airstrips on a map as to their location, area required and construction methods. (Camp center and airstrip center lines to be staked on the ground).

None planned.

#9 Wellsite Layout:

A plat (not less than 1" = 50') showing: .

(1) Cross sections of drill pad with cuts and fills.

See diagram "C".

(2) Location of mud tanks, reserve, burn and trash pits, pipe racks, living facilities and soil material stockpiles.

See diagram "D".

(3) Rig orientation, parking areas and access roads.

See diagram "D".

(4) Statement as to whether pits are to be lined or unlined. (Approval as used in this section means field approval of location. All necessary staking of facilities may be done at time of field inspection). A registered surveyor is not mandatory for such operations.

The lining of the pit will be decided upon by members of the U.S. Forest Service and Marathon at the time it is made (verbal agreement between U.S. Forest Service and Marathon 3/12/81).

See diagram "C".

#10 Plans for Restoration of Surface:

State restoration program upon completion of operations, including:

(1) Backfilling, leveling, contouring and waste disposal; segregation of spoils materials as needed.

The drill site will be cleaned and waste material will be put in the trash burn pit, which will be covered at the finish of the drilling operation. The reserve pit will be back filled as soon as it dries.

(2) Revegetation and rehabilitation - including access roads (normally per BLM recommendations).

The top soil will be redistributed and at the proper season the seed mixture of U.S.F.S. requirements will be drilled planted.

#10 Plans for Restoration of Surface: (cont'd)

- (3) Prior to rig release, pits will be fenced and so maintained until cleanup. (U.S.F.S specifications)

The reserve pit will be fenced on 3 sides during drilling. At the completion of the drilling, all pits will be fenced on the one remaining side.

- (4) If oil on pit, remove oil or install overhead flagging.

If there is oil on the reserve pit, it will be removed or flagged with overhead flagging.

- (5) Timetable for commencement and completion of rehabilitation operations.

Depending upon climatic conditions, restoration should be completed from six months to one year after abandoning well.

#11 Other Information:

General Description of:

- (1) Topography, soil characteristics, geologic features, flora and fauna.

This information will be incorporated in the archeological report. The U.S. Forest Service will use their own archeologist.

- (2) Other surface use activities and surface ownership of all involved lands.

The drill site and access road is owned by U.S. Government. The administrator is the U.S. Forest Service, Duchesne, Utah.

- (3) Proximity of water, occupied dwellings, archeological, historical or cultural sites.

There is no water or occupied dwellings in the area. Archeologist will be from the U.S. Forest Service, Duchesne, Utah.

#12 Lessee's or Operator's Representative:

Mike E. Krugh:	Marathon Oil Company	(307) 577-1555 Office
	P.O. Box 2659	(307) 577-1664 Home Phone
	Casper, WY 82602	

- #13 Certification: The following statement is to be incorporated in the plan and must be signed by the lessee's or operator's field representative who is identified in item No. 12 of the plan:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Marathon Oil Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

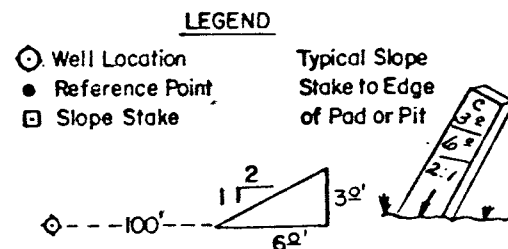
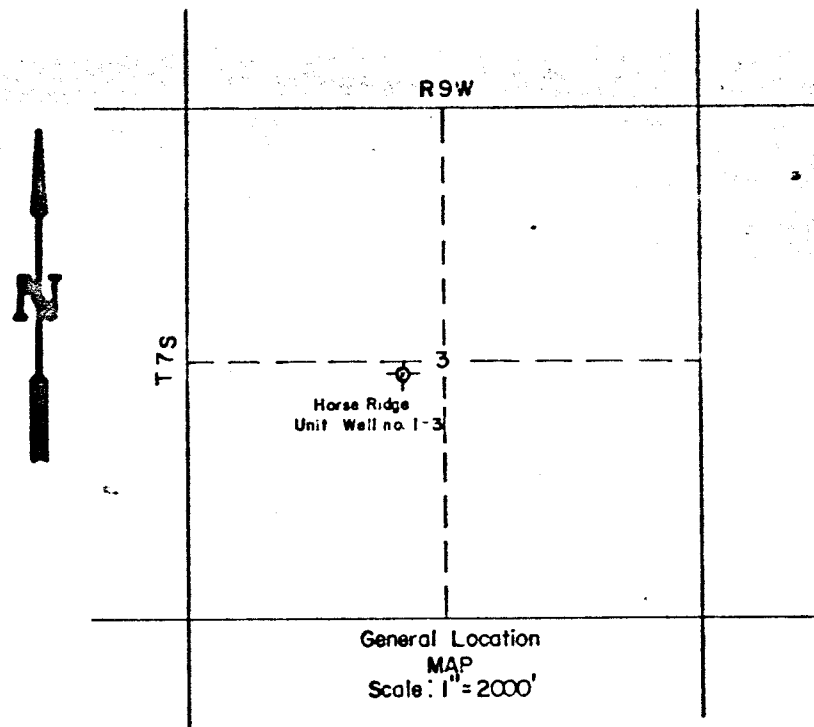
<u>3-24-81</u>	<u>Michael E. Krugh</u>
Date	Name

<u>District Drilling Supt.</u>
Title

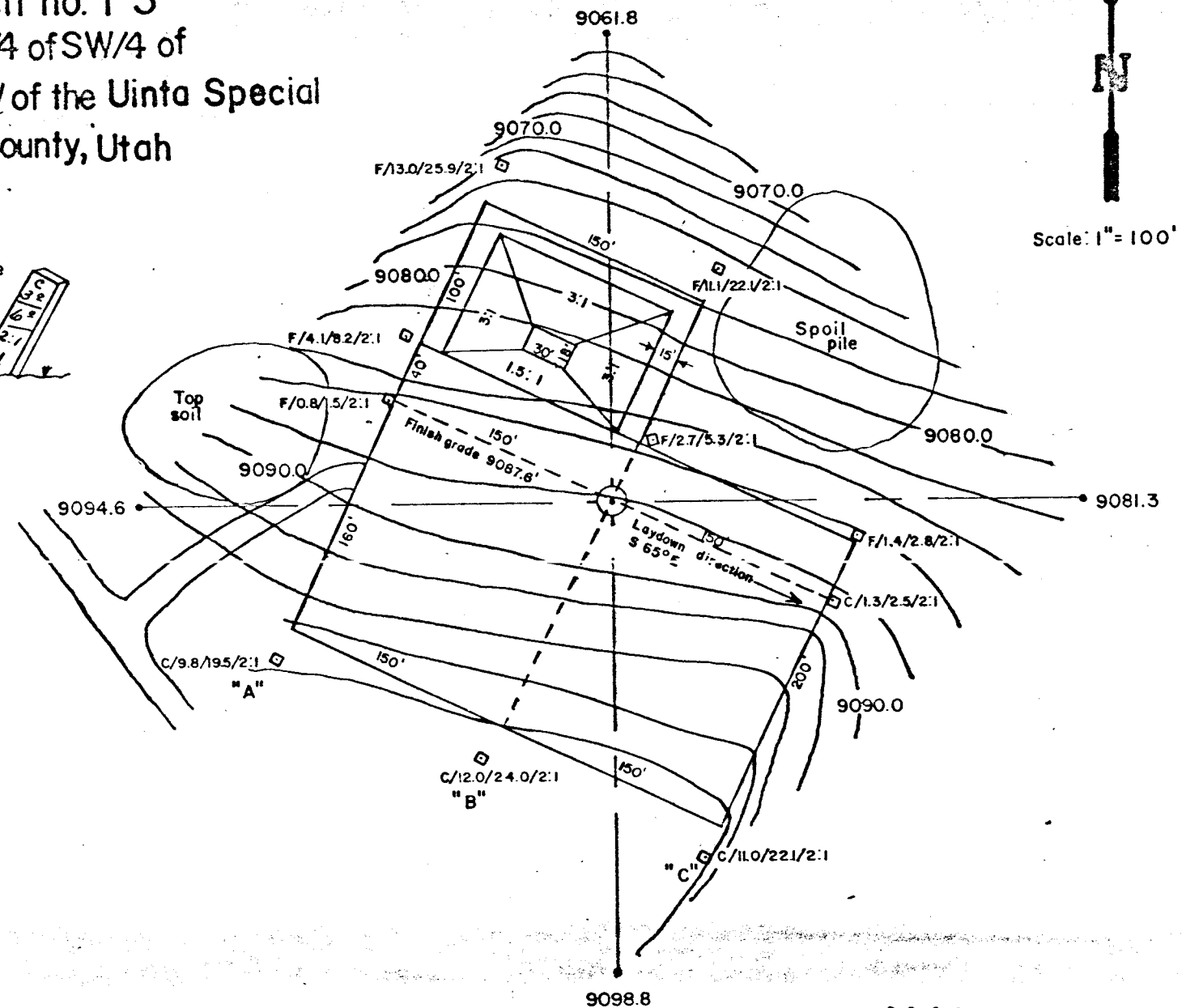
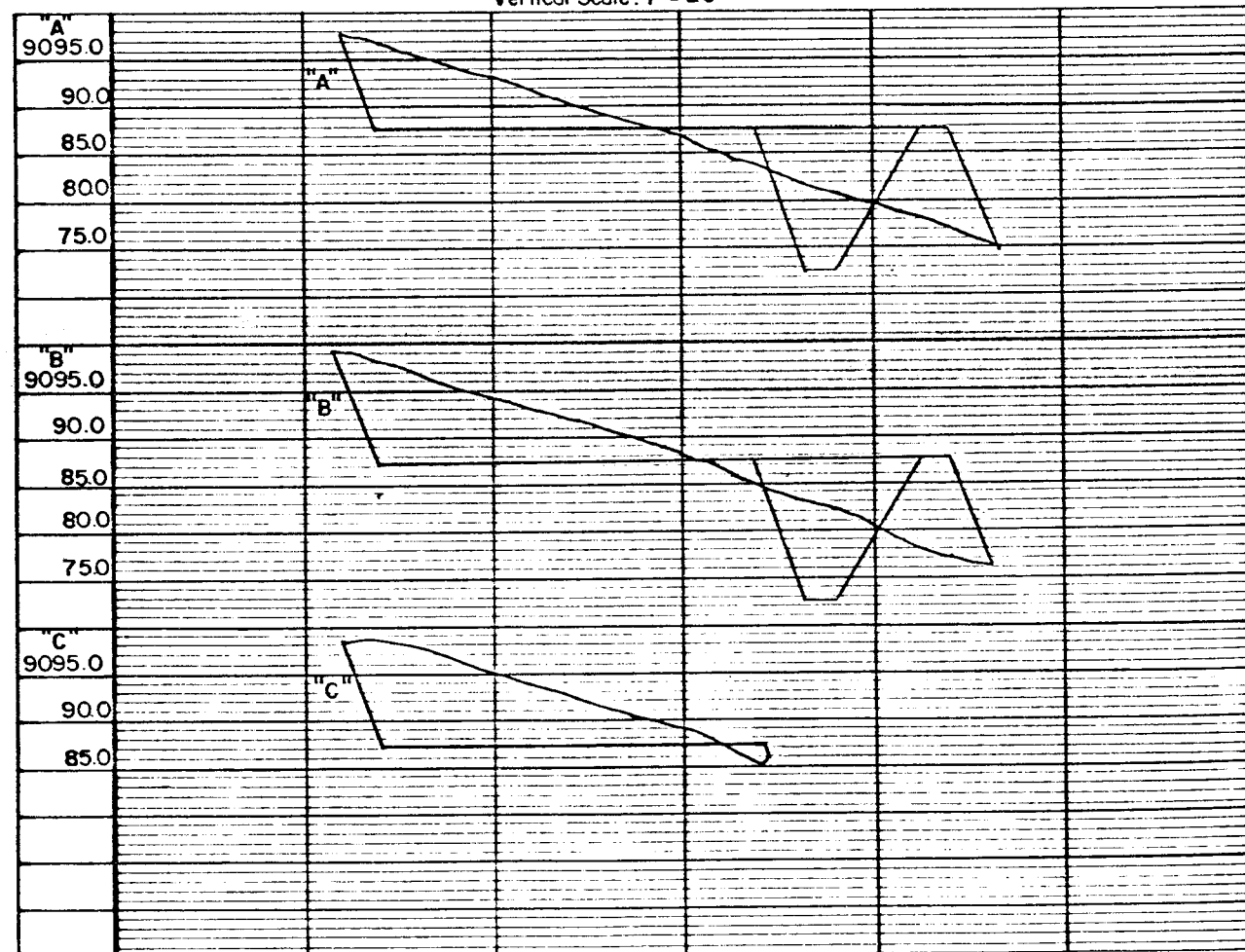
MARATHON'S REPRESENTATIVE RESPONSIBLE FOR PREDRILL IS: WALT WEST

OFFICE	307/577-1555
RESIDENCE	307/235-1420

Marathon Oil Company  
Horse Ridge Unit Well no. 1-3  
Located in the NE/4, NE/4 of SW/4 of  
Section 3, T7S, R9W of the Uinta Special  
Meridian, Duchesne County, Utah



Cross Sections  
of  
Laydown Direction & Reserve Pit  
Horizontal Scale: 1" = 100'  
Vertical Scale: 1" = 20'



**Total Yardage**

Cut = 11,083	Cu. Yds.
Fill = 7,267	Cu. Yds.
Spoil pile = 1,038	Cu. Yds.
Top soil = 2,778	Cu. Yds.

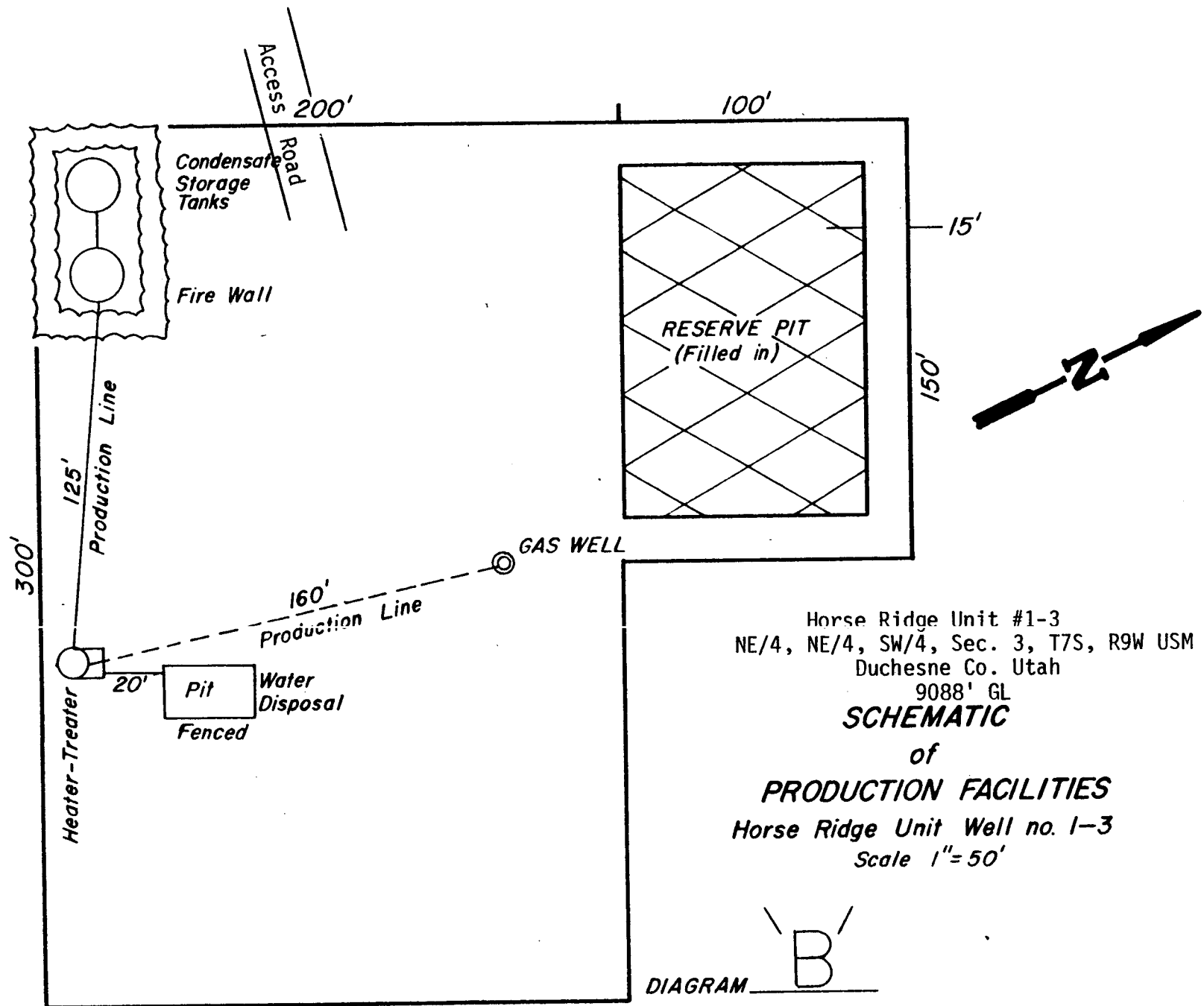
Reserve pit capacity = 14,345 Barrels at 15' depth.

**MAP**  
To  
Accompany Application  
For  
PERMIT TO DRILL  
Applicant:  
Marathon Oil Company  
P.O. Box 120  
Casper, Wyoming 82601

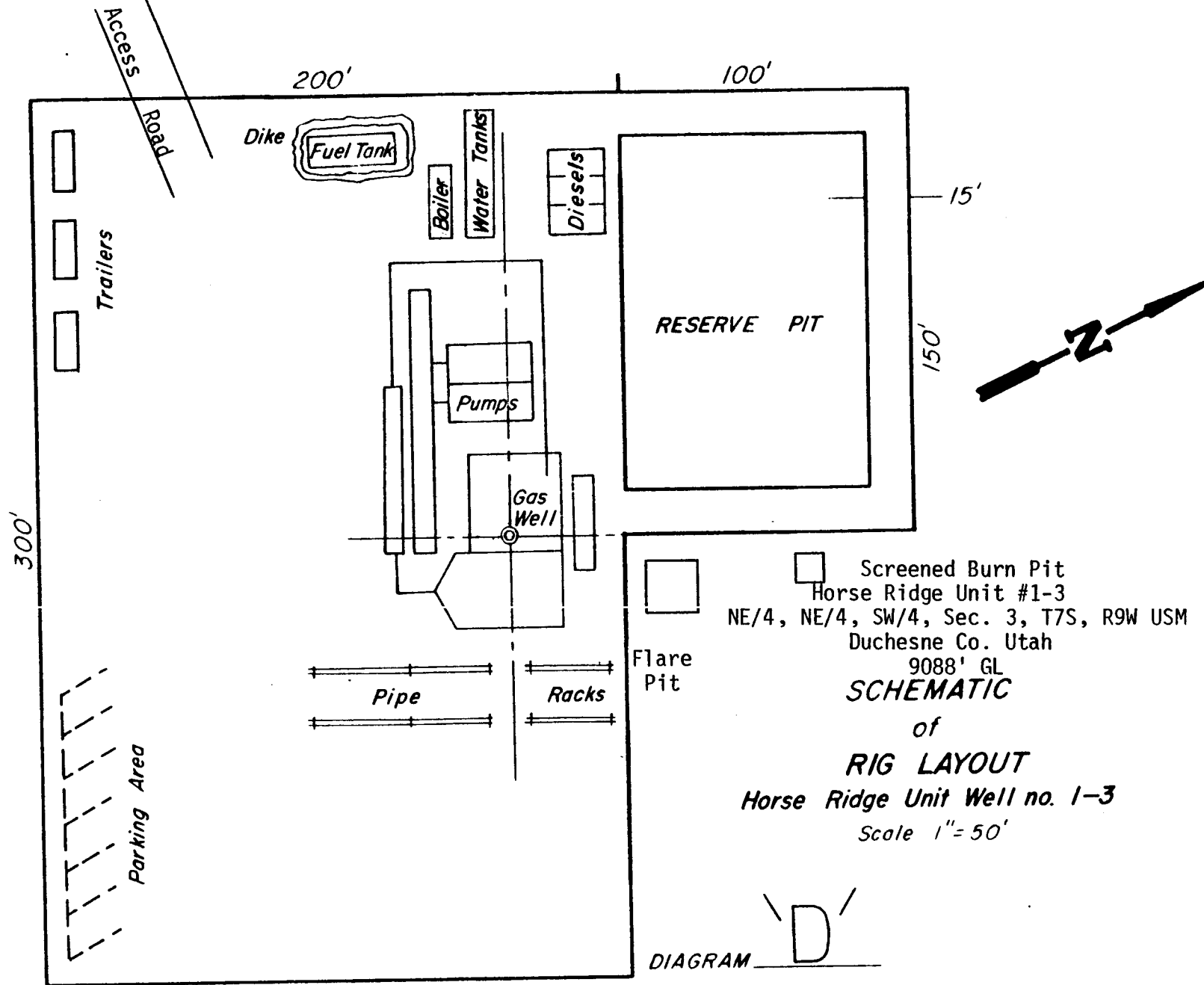
Prepared  
By  
William H. Smith  
& Associates P.C.  
Surveying Consultants

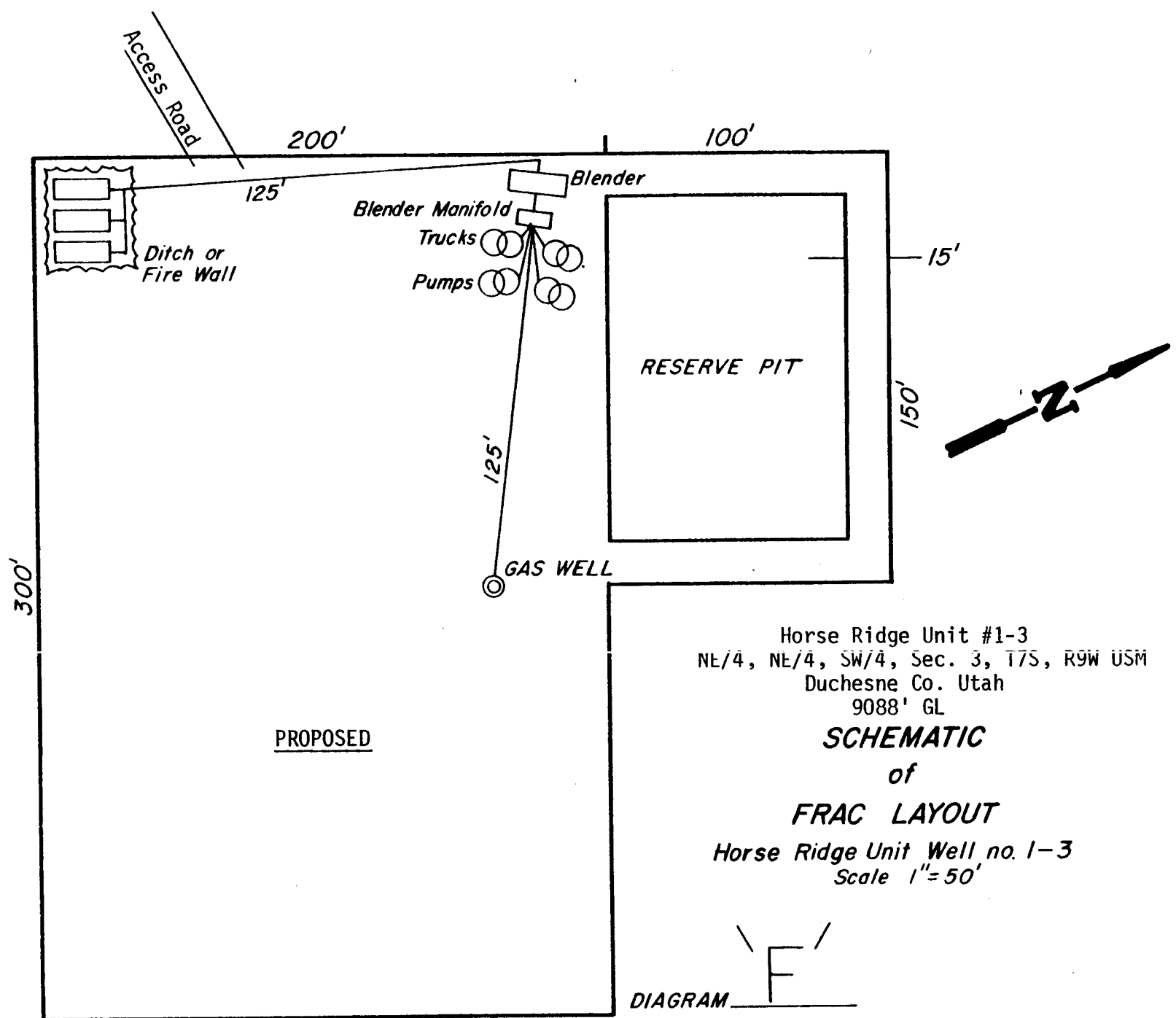
By: MLD  
Date: 11/19/80

Job No. 138-80







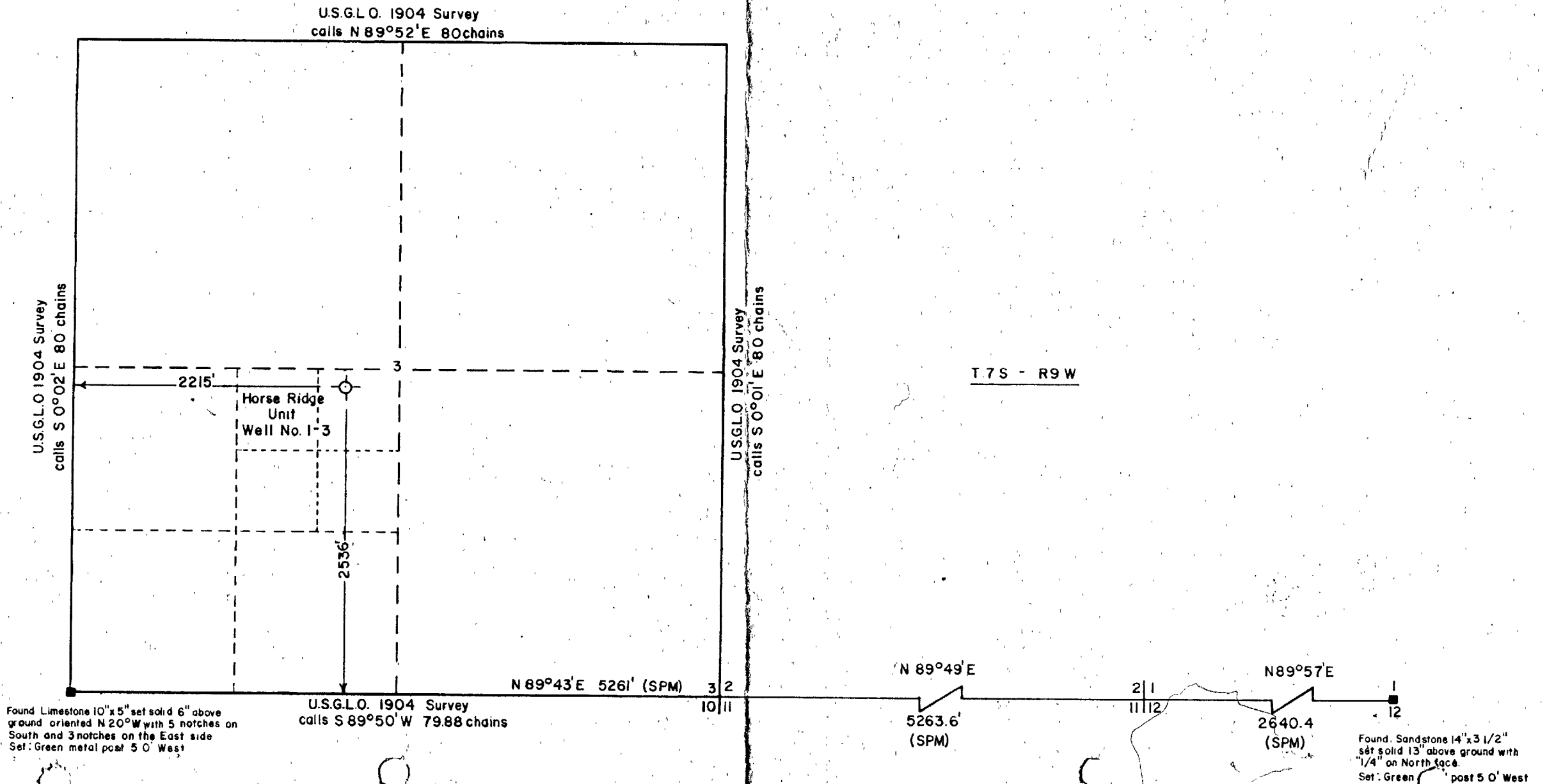


ORIGINAL  
11/1/80

NOV 3 1 1981

RECEIVED

Scale: 1" = 1,000'



**Legend**

- - Brass cap monument
- - Stone monument
- SPM - Established by single proportionate measurement

**Notes**

Orientation by Solar Observation

I, William H. Smith of Green River, Wyoming hereby certify that in accordance with a request from Walt West of Casper, Wyoming for Marathon Oil Company made a survey on the 11th day of November 1980 for location and elevation of the Horse Ridge Unit Well No. 1-3. As shown on the above map, the wellsite is in the NE/4 NE/4 SW/4 of Section 3, Township 7 South, Range 9 West of the Unita Special Meridian, Duchesne County, State of Utah. Elevation is 9088 feet ungraded ground. Datum USGS Spot elevation 8970 ± 400' Westerly from the East quarter corner of Section 1, T 7 S, R 9 W. Said point being marked with 3 1/2" brass cap set in sandstone.

Reference Point	North	301.0'	Set 5/8"x24" rebar and lath with flagging	Elevation top rebar = 9061.8
Reference Point	East	300.0'	Set 5/8"x24" rebar and lath with flagging	Elevation top rebar = 9081.3
Reference Point	South	300.0'	Set 5/8"x24" rebar and lath with flagging	Elevation top rebar = 9098.8
Reference Point	West	300.0'	Set 5/8"x24" rebar and lath with flagging	Elevation top rebar = 9094.6

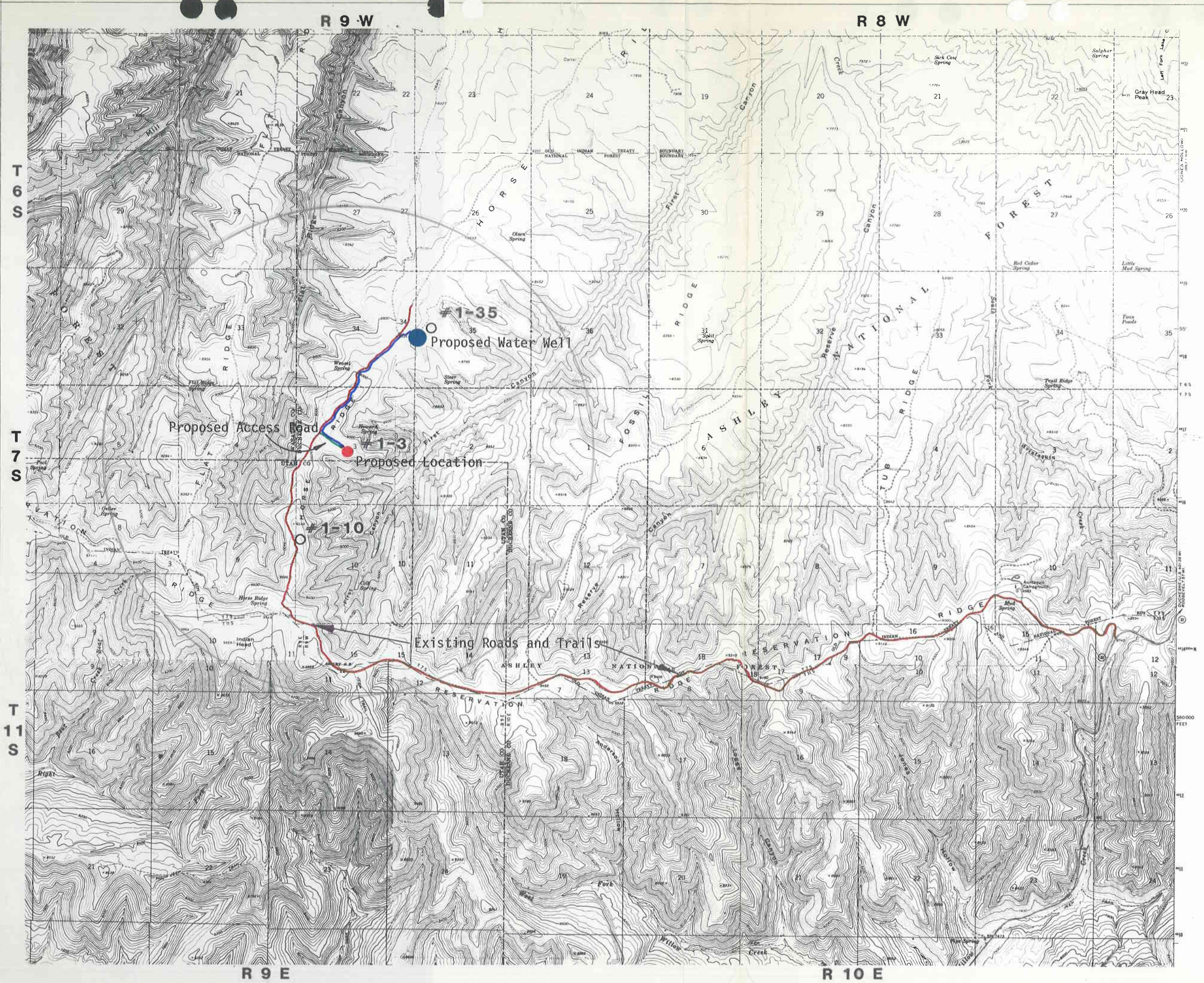
*William H. Smith*  
UTAH R.L.S. NO. 2764

WELL LOCATION PLAT  
of  
Horse Ridge Unit Well No. 1-3  
for  
Marathon Oil Company  
Prepared by  
William H. Smith and Associates, P.C.  
Surveying Consultants  
P.O. Box 654  
Green River, Wyoming 82935

Drawn by: MLD

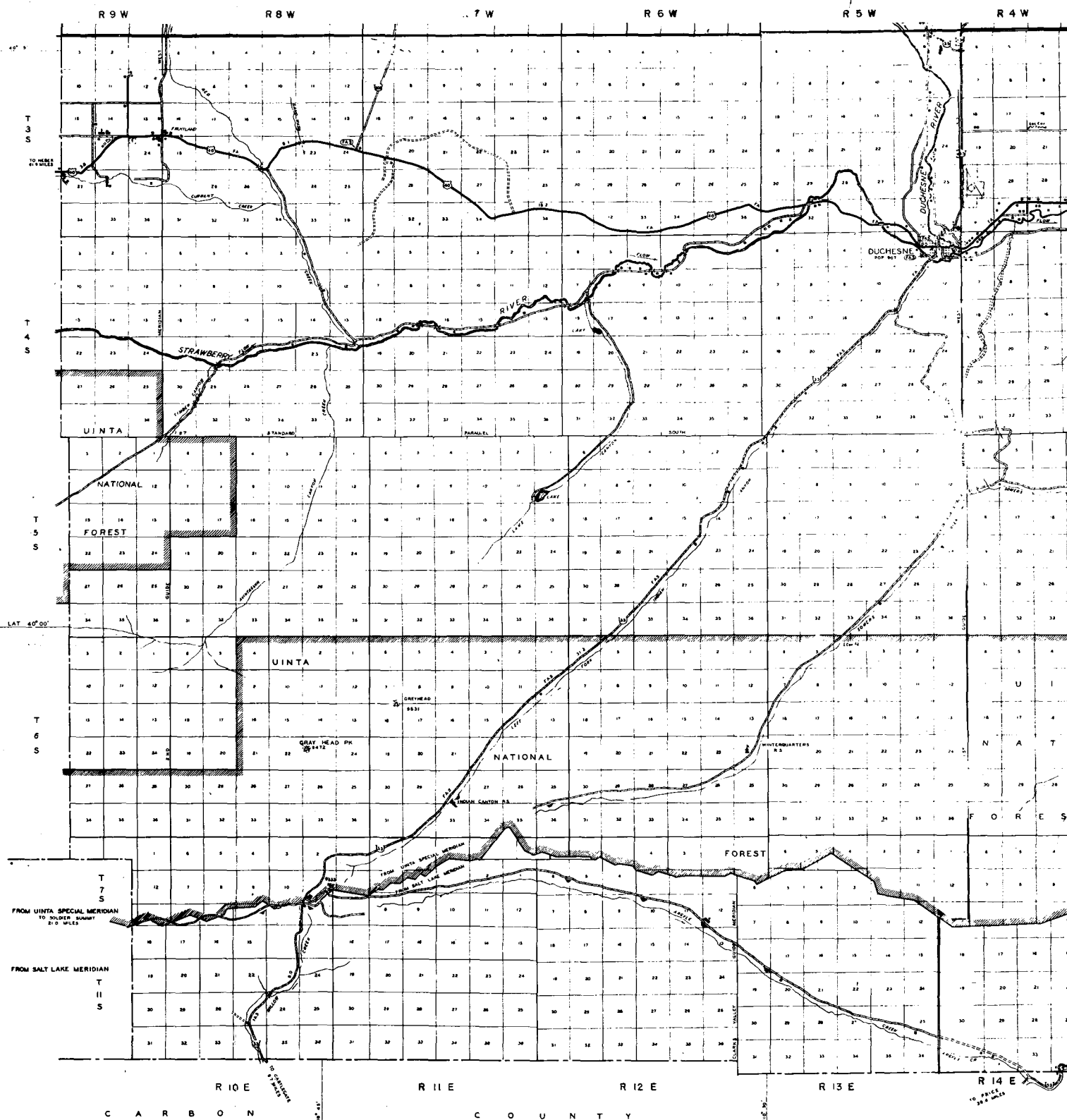
Job No. 138-80








UTAH COUNTY



**VICINITY MAP FOR  
MARATHON OIL COMPANY  
#1-3, #1-10 & #1-35 HORSERIDGE UNIT WELLS  
DUCHESNE COUNTY, UTAH**

Diagram 

**SUPERIOR OIL**

*M*

RECEIVED

July 28, 1981

DIVISION OF  
OIL, GAS & MINING

Utah Division of Oil, Gas & Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

ATTENTION: Cleon B. Feight

RE: Horse Ridge Unit  
Superior #43-0-2-53  
Marathon Operator  
Duchesne, Utah and Wasatch Counties  
Utah

Dear Mr. Feight:

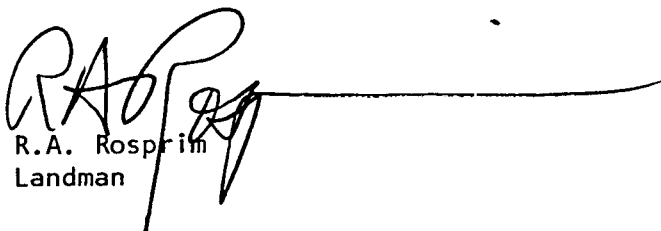
Earl Brown of Marathon Oil Company has advised us that you require a concurrence from Superior Oil Company regarding the drilling of Horse Ridge Unit Well #1-10. Please be advised that Superior concurs and approves in the drilling of this well at the proposed location. This location is 1574' FNL and 202' FWL, Section 10, T7S-R9W, Utah County, Utah.

Marathon has also proposed two other locations in this unit. These are the #1-35 in Section 35, T6S-R9W and the #1-3 in Section 3, T7S-R9W. Superior also approves of the proposed locations relative to its leases in this unit.

Please advise if you need any additional information from us regarding these proposed wells.

Respectfully,

THE SUPERIOR OIL COMPANY

  
R.A. Rosprim  
Landman

RAR/cbb

cc: Earl Brown  
Marathon Oil Company  
P.O. Box 120  
Casper, Wyoming 82602

The Superior Oil Company

Western Division

1860 Lincoln St., Suite 800,  
Lincoln Tower Building, Denver, CO 80295  
(303) 861-8261, Twx: 910 931 2539



SCOTT M. MATHESON  
Governor

GORDON E. HARMSTON  
*Executive Director,*  
NATURAL RESOURCES

CLEON B. FEIGHT  
*Director*

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116  
(801) 533-5771

OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON  
*Chairman*

JOHN L. BELL  
C. RAY JUVELIN  
THADIS W. BOX  
MAXILIAN A. FARBMAN  
EDWARD T. BECK  
E. STEELE McINTYRE

August 10, 1981

Marathon Oil Company  
P. O. Box 2659  
Casper, Wyoming 82602

RE: Well No. Horse Ridge #1-3,  
Sec. 3, T. 7S, R. 9W,  
Duchesne County, Utah

Dear Mr. West:

I am returning your Application For Permit to Drill the above referenced well. Should you desire at some future date to drill this well, please feel free to reapply. However, I would call your attention to the proposed location, which will necessitate a request for an unorthodox location under Rule C-3(c), in the General Rules and Regulation of Practice and Procedure.

Sincerely,

DIVISION OF OIL, GAS, AND MINING

Michael T. Minder  
Petroleum Engineer

MTM/db  
Enclosure



**Marathon  
Oil Company**

P.O. Box 120  
Casper, Wyoming 82602  
Telephone 307/235-2511

August 17, 1981

State of Utah  
Department of Natural Resources  
Division of Oil, Gas, and Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

Gentlemen:

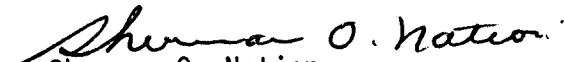
Re: Well No. Horse Ridge 1-3  
NE $\frac{1}{4}$ SW $\frac{1}{4}$ , Sec. 3, T.7S., R.9W.  
Duchesne County, Utah

**RECEIVED**  
AUG 20 1981

DIVISION OF  
OIL, GAS & MINING

As requested in Mr. Minder's letter of August 10, 1981, the necessity for this unorthodox location is due to terrain. At an on-site inspection on June 2, 1981, representatives from the U.S.G.S. and the Forest Service also agreed to this location.

Yours truly,

  
Sherman O. Nation  
Area Land Supervisor

SON/REB/1sh

cc: W. E. West



INTRACOMPANY CORRESPONDENCE

TO	Walt West	DATE	August 17, 1981
OFFICE	Operations	FROM	R. Earl Brown
	Re: Unorthodox locations for	OFFICE	Southern Area Land
	<small>(USE THIS LINE FOR FILE REFERENCE OR SUBJECT)</small>		
	<u>Horse Ridge Unit Wells 1-35 and 1-3</u>		

As requested, attached are letters for the unorthodox locations for the subject wells.

I apologize for the delay, but due to a misunderstanding in phone conversations, it was uncertain that these letters were necessary.

REB/lsh

enclosures

**RECEIVED**

AUG 20 1981

DIVISION OF  
OIL, GAS & MINING

\*\* FILE NOTATIONS \*\*

DATE: Aug. 28, 1981

OPERATOR: Marathon Oil Company

WELL NO: Horse Ridge #1-3

Location: Sec. 3 T. 7S R. 9W County: Duchess

File Prepared: ☒

Entered on N.I.D: ☒

Card Indexed: ☒

Completion Sheet: ☒

API Number 43-013-30598

CHECKED BY:

Petroleum Engineer: M. J. Munder 9-2-81  
Per Call (9-2-81 S. Nations) Superior & Marathon only lease portion  
which control acreage within 660' radius of proposed well - he will  
send written confirmation  
Director: \_\_\_\_\_

Administrative Aide: Chris Per Rule C-3(c)  
\_\_\_\_\_  
\_\_\_\_\_

APPROVAL LETTER:

Bond Required: ☐

Survey Plat Required: ☐

Order No. \_\_\_\_\_

O.K. Rule C-3 ☐

Rule C-3(c), Topographic Exception - company owns or controls acreage  
within a 660' radius of proposed site ☐

Lease Designation Lease

Plotted on Map ☐

Approval Letter Written ☐

Hot Line ☒

P.I. ☒

September 2, 1981

Marathon Oil Company  
P. O. Box 2659  
Casper, Wyoming 82602

RE: Well No. Horse Ridge #1-3,  
Sec. 3, T. 7S, R. 9W,  
Duchesne County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil well on said unorthodox location is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Petroleum Engineer  
Office: 533-3771  
Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-<sup>013-30578</sup>~~218a10508~~.

Sincerely,

DIVISION OF OIL, GAS, AND MINING

  
Michael T. Minder  
Petroleum Engineer

MTM/db  
CC: USGS



P.O. Box 120  
Casper, Wyoming 82602  
Telephone 307/235-2511

September 8, 1981

State of Utah  
Department of Natural Resources  
Division of Oil, Gas, and Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

Attention: Michael T. Minder

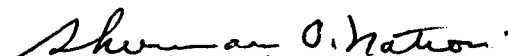
Re: Horse Ridge Unit Well #1-3  
2215 feet FWL, 2536 feet FSL  
Sec. 3, T7S-R9W, Utah Special Meridian  
Duchesne County, Utah

Gentlemen:

In accordance with Rule C-3(c) General Rules and Regulations and Rules of Practice and Procedure, please be advised that the Superior Oil Company is the lessee of record for Federal Lease U-22775 covering All of Sections 3, 4 and 9, T. 7 S., R. 9 W., Utah Special Meridian, amongst other lands, and that through agreements to be worked out with Superior, Marathon will be the operator of any well drilled on the above-described lands and will control the acreage within a 660 foot radius of the proposed well site. Please refer to Superior's letter of July 28, 1981, which you have in your file, for Superior's concurrence as it regards the location for the Horse Ridge Unit Well #1-3.


The unorthodox well location is necessitated because of terrain and as a result of an on-site inspection held with representatives of the U.S.G.S. and Forest Service on June 2, 1981.

Very truly yours,

  
Sherman O. Nation  
Area Land Supervisor

SON/mm

SON/mm

  
SEP 10 1981

DIVISION OF  
OIL, GAS & MINING



STATE OF UTAH  
NATURAL RESOURCES & ENERGY  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

April 5, 1982

Marathon Oil Company  
P. O. Box 120  
Casper, Wyoming 82602

Re: Well No. Horse Ridge #1-35  
Sec. 35, T. 6S, R. 9W  
Duchesne County, Utah

Well No. Horse Ridge #1-3  
Sec. 3, T. 7S, R. 9W.  
Duchesne County, Utah

Gentlemen:

In reference to the above mentioned wells, considerable time has gone by since approval was obtained from this office.

This office has not received any notification of spudding. If you do not intend to drill these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If you plan to drill this location at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

Cari Furse  
Clerk Typist



**Marathon  
Oil Company**

P.O. Box 120  
Casper, Wyoming 82602  
Telephone 307/235-2511

April 13, 1982

State of Utah  
Natural Resources & Energy  
Oil, Gas & Mining  
4241 State Office Building  
Salt Lake City, Utah 84114

Attn: Cari Furse

Re: Well No. Horse Ridge #1-35  
Sec. 35, T6S-R9W  
Duchesne County, Utah

Well No. Horse Ridge #1-10  
Sec. 10, T7S-R9W  
Duchesne County, Utah

Well No. Horse Ridge #1-3  
Sec. 3, T7S-R9W  
Duchesne County, Utah

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Gentlemen:

In reference to your letter dated April 5, 1982, regarding the above-mentioned wells, please be informed that Marathon Oil Company still plans to drill the three wells. If any further correspondence is necessary, please send it to my attention at the following address:

Marathon Oil Company  
P. C. Box 2659  
Casper, Wyoming 82602

Sincerely,

James H. Youngflesh  
Area Land Supervisor

JHY/mm

Oil and Gas Operations  
2000 Administration Building  
1745 West 1700 South  
Salt Lake City, Utah 84104

September 21, 1982

Marathon Oil Company  
P.O. Box 2659  
Casper, Wyoming 82602

Re: Applications for Permit to Drill  
Well Nos. 1-35 and 1-3  
Section 35-T6S-R9W and  
Section 3-T7S-R9W, respectively  
Duchesne County, Utah  
Lease Nos. U-21678 and U-22775

Gentlemen:

The referenced Applications for Permit to Drill were received in this office on March 30, 1981.

We are returning your applications unapproved, per your letter dated September 15, 1982. If you again desire to drill at these locations, new complete packages must be submitted.

If you have any questions, please feel free to call.

Sincerely,

E. W. Guynn  
District Oil & Gas Supervisor

bcc: SMA  
State O&G ✓  
State BLM  
MMS-Vernal  
Well Files  
APD Control  
DH/dh



STATE OF UTAH  
NATURAL RESOURCES & ENERGY  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

September 29, 1982

Marathon Oil Company  
P. O. Box 2659  
Casper, Wyoming

RE: Well Nos. 1-35 and 1-3  
Sec. 35, T.6S, R.9W and  
Sec. 3, T.7S, R.9W  
Duchesne County, Utah

Gentlemen:

Approval for Application for Permit to Drill the above referenced wells are rescinded as of the above date in concert with action taken by Minerals Management Service.

If you intend to drill at this location at a future date, a new application for permit to drill may be submitted for State approval.

Sincerely,

Norm Stout  
Administrative Assistant

NS/as